WHAT IS CLAIMED IS:

1	 A pointing device comprising: 					
2	a housing for supporting a user's hand;					
3	a pointing sensor, mounted in said housing, for providing a pointing signal;					
4	a contour on said housing for receiving a finger of said user, said contour					
5	having curvature in at least one directions;					
6	a solid-state touch sensor in said contour for detecting movement of said					
7	finger along said.					
1	2. The device of claim 1 wherein said contour comprises a trench shaped					
2	to match a curve traced by a fingertip of said finger during a bending of said finger about a					
3	knuckle of said finger.					
1	3. The device of claim 1 wherein said touch sensor comprises:					
2	at least two electrodes mounted in said contour; and					
3	a capacitive detection circuit, connected to said electrodes, for detecting a					
4	change in capacitance due to a contact of said finger with said electrodes.					
1	4. The device of claim 1 further comprising:					
2	wherein said touch sensor includes a plurality of discrete electrodes mounted					
3	in said contour to detect movement of a finger, wherein at least first and second electrodes					
4	are electrically connected, with a third electrode not connected to said first and second					
5	electrodes, said third electrode being mounted where a finger will contact said third electrode					
6						
7	C 1 . C					
8						
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3	a circuit for detecting a contact with said electrode, including					
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5						
6	a comparison circuit, having an input node connected to said capacitive and					
_	1 1 for a security a violation of said input node to a threshold voltage:					

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a clamp-high circuit, o	connected to said node, for clamping said node high in
response to a clamp-high control sign	nal;

a clamp-low circuit, connected to said input node, for clamping said node low

- a controller, connected to an output of said comparison circuit, to said clamphigh circuit and to said clamp low circuit, for providing said clamp-high and clamp-low control signals and generating an output signal in response to measuring an amount of time between transitions of said output of said comparison circuit.
 - The device of claim 5 wherein the second element is a current source.
- The device of claim 1 wherein said touch sensor comprises a scrolling sensor, said scrolling sensor providing a scrolling command in response to a movement of a users finger across said stationary sensor, and continuing to provide said scrolling command in response to said finger reaching one end of said stationary scrolling sensor without lifting
 - The device of claim 1 further comprising:
- a sensory feedback element for providing feedback to a user corresponding to an amount of movement of said finger in said contour.
- The device of claim 8 wherein said sensory feedback element 9. comprises a plurality of tactile formations on a surface of said contour.
- The device of claim 8 wherein said sensory feedback element 10. comprises a speaker mounted in said pointing device.
- The device of claim 1 wherein said trench is at least partially 11. 1 translucent, and further comprising a light emitting element mounted in said pointing device. 2
 - A pointing device comprising: 12.
- 2 a housing:
 - a pointing sensor, mounted in said housing, for providing a pointing signal;
- a plurality of discrete electrodes mounted on said housing to detect movement 4 of a finger, wherein at least first and second electrodes are electrically connected, with a third 5
 - electrode not connected to said first and second electrodes, said third electrode being

7	mounted where a finger will contact said third electrode in between contacting said first and					
8	second electrodes; and					
9	a circuit, connected to said electrodes, for detecting contact of said finger with					
10	said electrodes.					
1	13. A pointing device comprising:					
2	a housing;					
3	a pointing sensor, mounted in said housing, for providing a pointing signal;					
4	at least one electrode mounted on said housing;					
. 5	a circuit for detecting a contact with said electrode, including					
_ 6	a first, capacitive element;					
₽ 7	a second element connected to said first, capacitive element;					
□ 6 □ 7 □ 8	a comparison circuit, having an input node connected to said first and second					
瓜 9	elements, for comparing a voltage at said input node to a threshold voltage;					
10	a clamp-high circuit, connected to said node, for clamping said node high in					
# 11	response to a clamp-high control signal;					
12	a clamp-low circuit, connected to said input node, for clamping said node low					
© 13	in response to a clamp-low control signal;					
□ 14	a controller, connected to an output of said comparison circuit, to said clamp-					
15	high circuit and to said clamp low circuit, for providing said clamp-high and clamp-low					
16	control signals and generating an output signal in response to measuring an amount of time					
17	between transitions of said output of said comparison circuit.					
17	between transitions of said output of said companion or out					
1	14. The device of claim 13 wherein the second element is a current source.					
1	15. A pointing device comprising:					
2	a housing for supporting a user's hand;					
3	a pointing sensor, mounted in said housing, for providing a pointing signal;					
4	a stationary scrolling sensor mounted on said housing, said scrolling sensor					
5	providing a scrolling command in response to a movement of a users finger across said					
6	stationary sensor, and continuing to provide said scrolling command in response to said					
7	finger reaching one end of said stationary scrolling sensor without lifting off.					
,	imper reasoning one one or said stationary seroning series.					
1	16. A method of capacitively detecting movement of a finger across a					
2	plurality of electrodes on a pointing device, comprising:					

provide said notification.

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	1		24.	The pointing device of claim 20 wherein said notification element is a	
	2	speaker.			
	1		25.	A pointing device comprising:	
	2		a hous	ing for supporting a user's hand;	
	3	a pointing sensor, mounted in said housing, for providing a pointing signal			
	4		a solid	-state touch sensor having at least two discrete electrodes, said	
	5	electrodes being separated with a portion of said housing in between said electrodes, said			
	6	sensor detecting movement of a finger from one electrode to another.			
	1		26.	The pointing device of claim 1 further comprising:	
	2		a conti	rol circuit, in said pointing device, for detecting a speed of movement	
M	3	between said two electrodes, and sending a movement signal to a computer for a number of			
M	4	movements co	rrespor	ding to said speed.	
iii Šede	1		27.	The pointing device of claim 26 wherein said movement signal	
N	2	comprises a scrolling signal.			
	1		28.	A pointing device comprising:	
juh.	2		a hous	ing for supporting a user's hand;	
	3		a point	ting sensor, mounted in said housing, for providing a pointing signal;	
	4		a solid	-state sensor for detecting movement of a finger across said sensor	
	5	using capaciti	ve sensi	ng with a galvanic contact by said finger.	

29.

resistive element.

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The pointing device of claim 5 wherein said second element is a